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PHOTOGRAPHIC INTERPRETATION REPORT



HF COMMUNICATIONS  
FACILITIES AT PLESETSK  
MISSILE AND SPACE CENTER,  
AND VERKHNYAYA SALDA,  
YURYA, AND TYUMEN  
ICBM COMPLEXES, USSR

[Redacted]

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NOVEMBER 1967

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PHOTOGRAPHIC INTERPRETATION REPORT

# HF COMMUNICATIONS FACILITIES AT PLESETSK MISSILE AND SPACE CENTER, AND VERKHNYAYA SALDA, YURYA, AND TYUMEN ICBM COMPLEXES, USSR

NOVEMBER 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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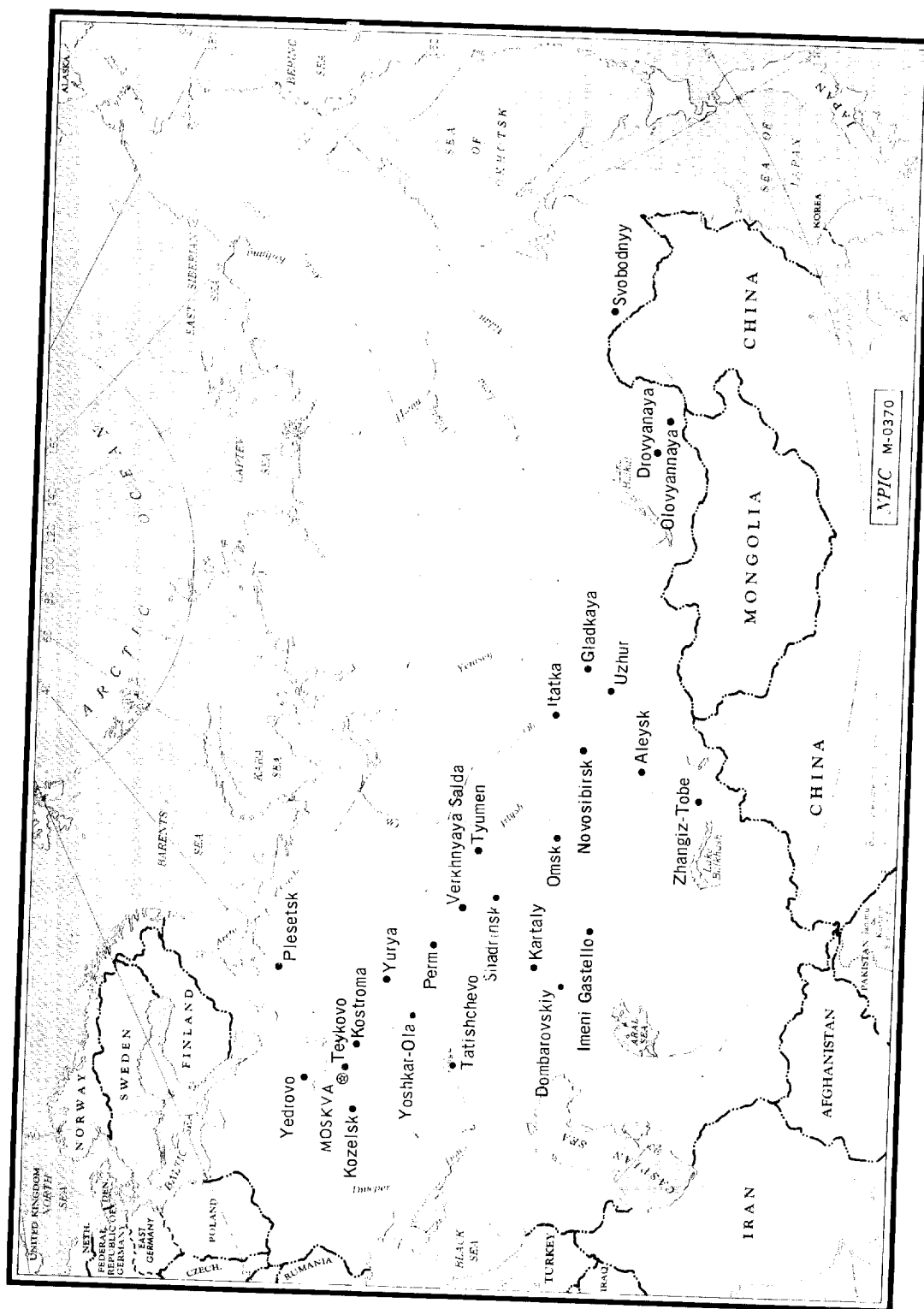


FIGURE 1. LOCATION OF DEPLOYED SOVIET ICBM COMPLEXES.

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## INTRODUCTION

This report is in response to NSA requirement NSA/SOC/R122-66 which requests a photographic interpretation of the high frequency (HF) communications facilities associated with the Soviet ICBM launch complexes. These communications facilities are being reported in 3 parts. Part 1 described the HF communications facilities at the Novosibirsk, Drovyanaya, Olovyannaya, and Svobodnyy ICBM Launch Complexes. 1/ This part, Part 2, will describe the HF communications facilities at the Plesetsk Missile and Space Center, and the Verkhnyaya Salda, Yurya, and

Tyumen ICBM Launch Complexes (Figure 1). Part 3 will describe the HF communications facilities at 5 other ICBM launch complexes. Eight other HF communications facilities at ICBM launch complexes were recently described in 2 previous reports. 2,3/

Table 1 presents a summary of the type, dimensions, azimuthal orientations, and possible correspondents of each of the identified antennas in the 4 HF communications facilities described in this report.

Table 1. HF Communications Facilities\* at 4 ICBM Complexes

ICBM Complex	Coordinates	Distance & Direction from Complex Support Facility	Antenna					Negation Date
			Number & Type	Azimuth (in degrees)	Dimensions (in feet)	Possible Correspondent		
Plesetsk Missile and Space Center	62-45N 040-26E	3.2 nm East	1. Dipole 2. Dipole		220 210	Yedrovo Tyumen	Cannot be negated. Present in	
Verkhnyaya Salda	58-12N 060-42E	At the auxiliary complex support facility	1. Fishbone 2. Fishbone		315 x 170 315 x 170	Moskva Moskva	<div></div>	
Yurya	59-09N 049-18E	1.5 nm North	1. Vee 2. Vee 3. Vee 4. Dipole 5. Dipole 6. Dipole 7. Dipole 8. Dipole		75 (Leg) 75 (Leg) 110 (Leg) 120 140 140 100 200	Undet Undet Undet Moskva Undet Undet Plesetsk Moskva	Cannot be negated. Antenna clearings present	
Tyumen	56-54N 065-49E	Adjacent to Northwest side	1. Fishbone 2. Fishbone 3. Fishbone 4. Vee  5. Dipole 6. Dipole		315 x 195 315 x 195 315 x 195 125 (Leg)  120 260	Moskva Moskva Moskva Verkhnyaya Salda Perm Yurya	<div></div>	

\*Within these 4 facilities, only the control building at Tyumen will be earth mounded.

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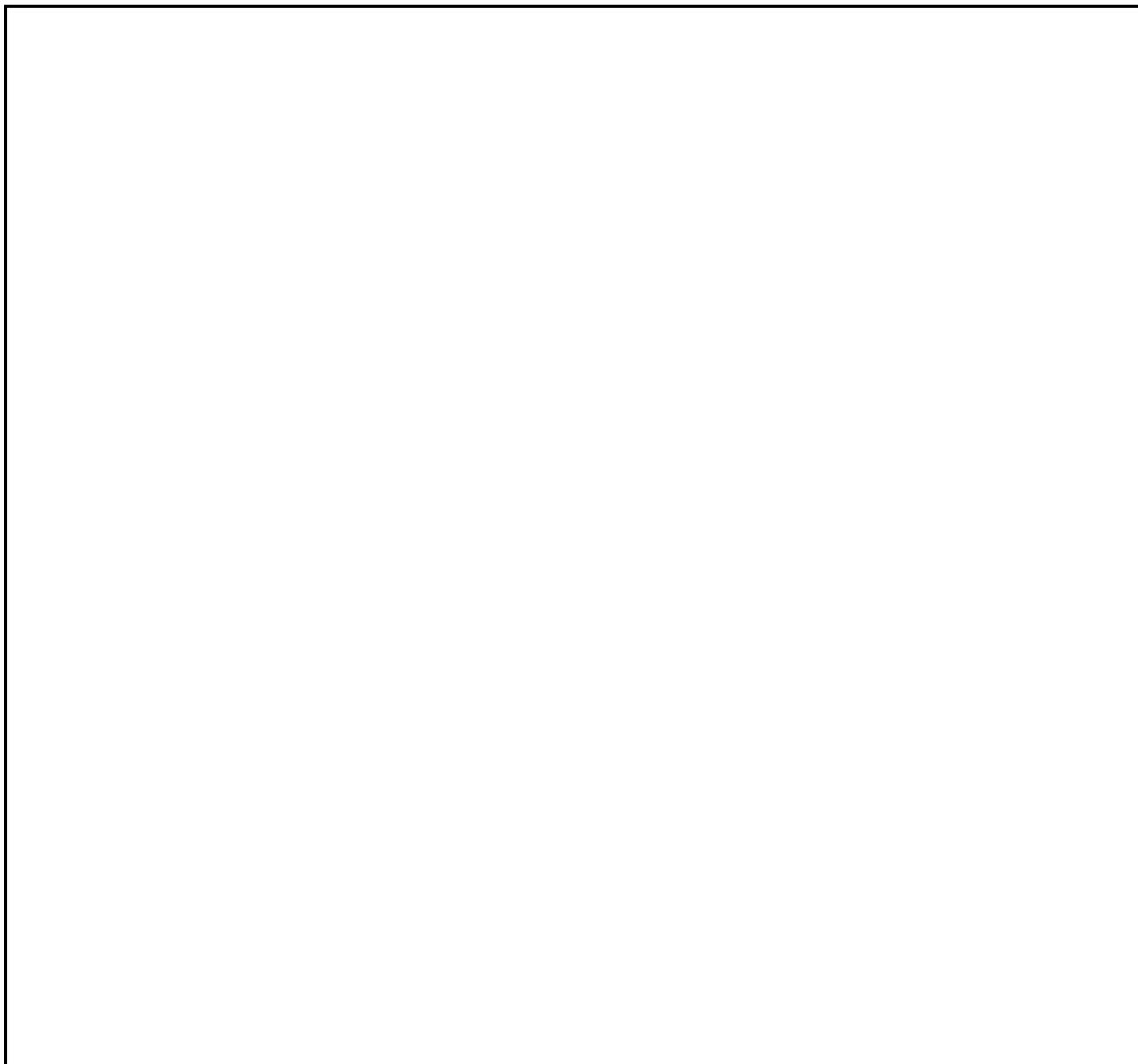
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## HF COMMUNICATIONS FACILITY AT THE PLESETSK MISSILE AND SPACE CENTER

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The Plesetsk Missile and Space Center HF Communications Facility (Figure 2) is 3.2 nautical miles (nm) east of the Plesetsk Complex Support Facility and consists of 2 dipole antennas. This facility was first observed on [redacted] photography of [redacted] and cannot be negated on

[redacted] photography. The size of the secured area, the road pattern, and the number of control buildings indicate that this facility may have communication components other than those indicated by the 2 horizontal dipole antennas.

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## HF COMMUNICATIONS FACILITY AT THE VERKHNYAYA SALDA ICBM COMPLEX

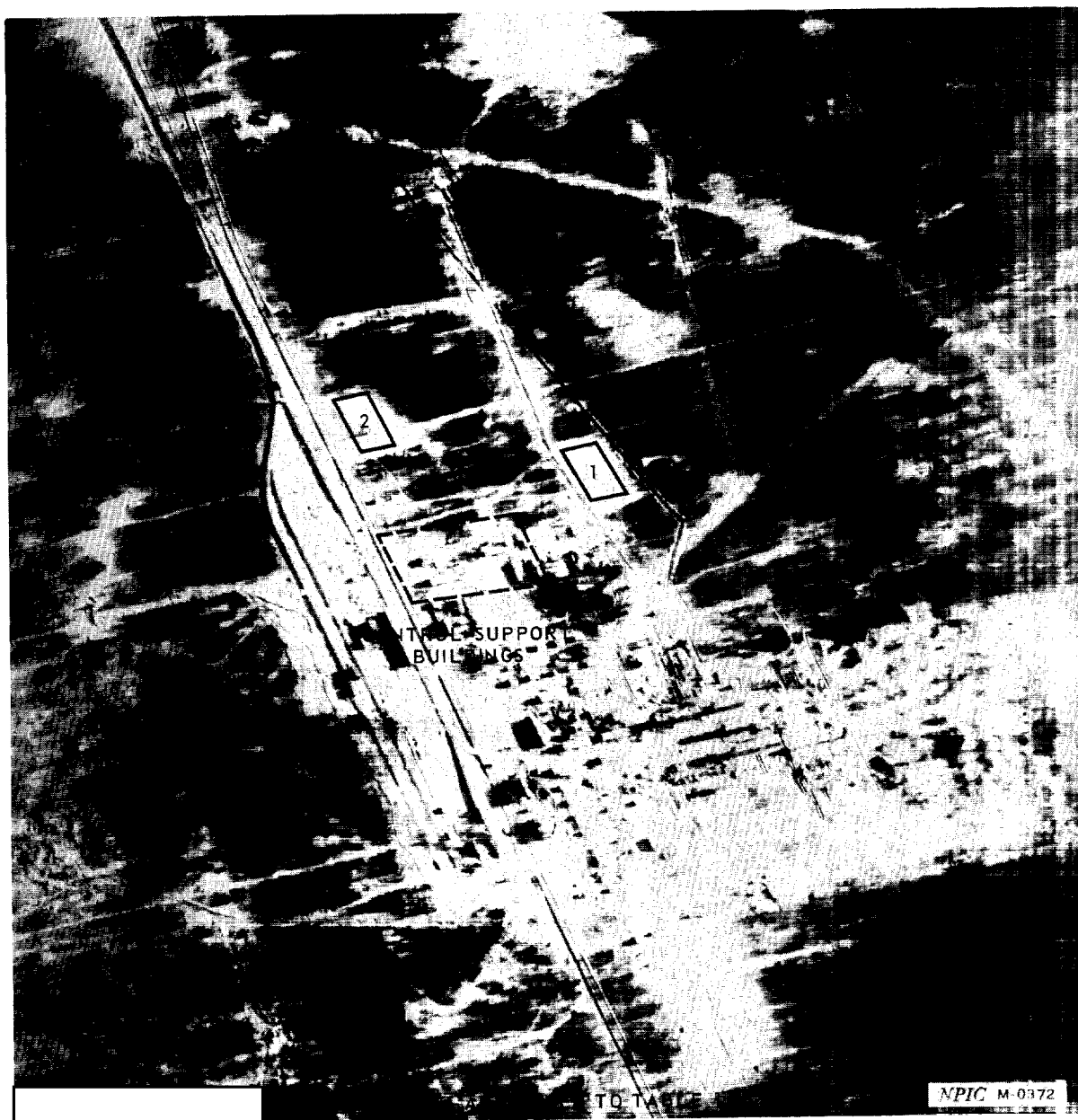


FIGURE 3. HF COMMUNICATIONS FACILITY AT VERKHNYAYA SALDA ICBM COMPLEX.

The Verkhnyaya Salda ICBM Complex Communications Facility (Figure 3) is at the auxiliary support facility 8 nm north-northeast of Verkh-

nyaya Salda and consists of 2 fishbone antennas adjacent to the control/support buildings.

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## HF COMMUNICATIONS FACILITY AT THE YURYA ICBM COMPLEX



The Yurya ICBM Complex Communications Facility (Figure 4) is 2 nm north of the Complex Support Facility and consists of 3 vee antennas

and 5 horizontal dipole antennas. Heavy vegetation precludes identification of other equipment.

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## HF COMMUNICATIONS FACILITY AT THE TYUMEN ICBM COMPLEX

The Tyumen ICBM HF Communications Facility (Figure 5) is on the northwest side of the Complex Support Facility and consists of 3 fish-bone antennas, 1 vee antenna, and 2 horizontal

dipole antennas. The control building is 140 by 50 feet and is similar in size and shape to those identified at Shadrinsk, and Yoshkar-Ola. These control buildings will all probable be earth mound-  
ed when complete. There is 1 other building under construction and 4 other support/construction buildings within this facility.

### REFERENCES

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### MAPS OR CHARTS

ACIC series, scale 1:200,000

### DOCUMENTS

1. NPIC. [ ] *HF Communications Facilities at Novosibirsk, Drovyanaya, Olovyanaya, and Svobodnyy ICBM Complexes, USSR, Oct 67* (TOP SECRET [ ])
2. NPIC. [ ] *HF Communications Facilities at Zhargiz-Tobe, Imeni Gastello, Uzhur, and Teykhovo ICBM Launch Complexes, USSR, Mar 67* (TOP SECRET [ ])
3. NPIC. [ ] *HF Communications Facilities at Yoshkar-Ola, Shadrinsk, Dombarovskiy, and Tatishchevo ICBM Complexes, USSR, Jul 67* (TOP SECRET [ ])

### REQUIREMENTS

NSA. NSA/P0432/R122-65  
CIA. C-RR6-83,543

### NPIC PROJECT

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